



Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Antisticking agents, based on vegetable oils

**Product no.:** Oel-002A

**Current version :** 2.0.2, issued: 28.06.2012

**Replaced version:** 2.0.2, issued: 09.05.2012

**Region:** GB

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name**

**CAPOL® Antisticking agents, based on vegetable oils**

**CAPOL® 262 C, CAPOL® 3073 A, CAPOL® 3073 A +, CAPOL® 3073 AK**

**CAPOL® 3073 A 1% Tutti Frutti, CAPOL® 3073 B, CAPOL® 3073 B 1 % Tutti Frutti**

**CAPOL® 3073 BK, CAPOL® 3073 CD, CAPOL® 3073 J, CAPOL® 3073 VS**

**CAPOL® 410 C, CAPOL® 418 C, CAPOL® 419 NOP, CAPOL® 420 C**

**CAPOL® 4348, CAPOL® 4348 1% Tutti Frutti, CAPOL® 4348 B**

**CAPOL® 4348 BK, CAPOL® 4348 F, CAPOL® 4348 K**

**CAPOL® 4468, CAPOL® 4468 D, CAPOL® 4468 DK**

**CAPOL® 4625 A, CAPOL® 4625 B , CAPOL® 4872 UK**

**CAPOL® 4906, CAPOL® 4910, CAPOL® 4910 K**

**CAPOL® 4915, CAPOL® 4915 K, CAPOL® 4915 T**

**CAPOL® 4925, CAPOL® 4977 A, CAPOL® 4977 A Bio/ Organic**

**CAPOL® 4979 MG, CAPOL® 4982, CAPOL® 510 C, CAPOL® 570 C**

**CAPOL® 5105, CAPOL® 5108, CAPOL® 5127, CAPOL® 513 C**

**CAPOL® 5278, CAPOL® 5302 N, CAPOL® 5346**

**CAPOL® 5440, CAPOL® 5452, CAPOL® 5462, CAPOL® 568 C, CAPOL® 584 C**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Relevant identified uses of the substance or mixture**

Antisticking agents for the food industry

**1.3 Details of the supplier of the safety data sheet**

**Address**

Capol GmbH

Otto-Hahn-Straße 10

25337 Elmshorn

Telephone no. +49 (0)41 21 / 47 74 - 0

Fax no. +49 (0)41 21 / 47 74 - 29

**Information provided by / telephone**

+49 (0)41 21 / 47 74-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies (advice in English):

+44 (0)1865 407333 (NCEC, National Chemical Emergency Centre)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification information

This product does not meet the classification and labelling criteria given in the Dangerous Preparations Directive (1999/45/EC; DPD)

#### 2.2 Label elements

Not relevant

#### 2.3 Other hazards

No special hazards have to be mentioned. Please observe the information given in this safety data sheet.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable. The product is not a substance.

#### 3.2 Mixtures

##### Chemical characterization

Mixture (preparation)

##### Hazardous ingredients

This product does not contain substances to be mentioned according to EU Regulation No 1907/2006 (REACH), annex II.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

##### After inhalation

Remove affected person from the immediate area. Remove to fresh air, keep patient warm and at rest.

##### After skin contact

When in contact with the skin, clean with soap and water.

##### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

##### After ingestion

Seek medical advice immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Carbon dioxide; extinguishing powder; Foam; Water spray jet

##### Unsuitable extinguishing media

Full water jet

#### 5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)



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### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). When picked up, treat material as prescribed under heading "Disposal considerations". Flush away residues with water.

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Observe the usual precautions for handling chemicals.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes. Do not inhale vapours.

#### Advice on protection against fire and explosion

Keep away from sources of ignition and flames.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed. Protect from heat and direct sunlight.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Advice on storage assembly

Do not store together with: Oxidizing agents

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No parameters available for monitoring.

### 8.2 Exposure controls

#### Appropriate engineering controls

No data available.

#### Personal protective equipment

##### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.



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### Eye / face protection

Safety glasses recommended

### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Check in any case suitability of protective glove for the specific workplace conditions (e.g. mechanical resistance, product compatibility, antistatic properties). The glove manufacturer's instructions and information regarding storage, care and replacement

### Other

Normal chemical work clothing.

### Environmental exposure controls

No data available.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>		
liquid to pasty		
whitish to yellowish		
<b>Odour</b>		
odourless		
<b>Odour threshold</b>		
No data available		
<b>pH value</b>		
No data available		
<b>Boiling point / boiling range</b>		
Value	>	200 °C
<b>Melting point / melting range</b>		
No data available		
<b>Decomposition point / decomposition range</b>		
No data available		
<b>Flash point</b>		
Value	>	200 °C
<b>Auto-ignition temperature</b>		
No data available		
<b>Oxidising properties</b>		
No data available		
<b>Explosive properties</b>		
No data available		
<b>Flammability (solid, gas)</b>		
No data available		
<b>Lower flammability or explosive limits</b>		
No data available		
<b>Upper flammability or explosive limits</b>		
No data available		
<b>Vapour pressure</b>		
Value	<	0.01 hPa





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<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	0.90	-	0.97 g/cm³
Reference temperature		20	°C
<b>Solubility in water</b>			
Remarks	insoluble		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No data available			
<b>Viscosity</b>			
No data available			

### 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

None, if handled according to order.

### 10.5 Incompatible materials

Oxidizing agents

### 10.6 Hazardous decomposition products

In case of incineration: Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>			
LD50	>	2	g/kg
Species	rat		



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<b>Acute dermal toxicity</b>
No data available
<b>Acute inhalational toxicity</b>
No data available
<b>Skin corrosion/irritation</b>
No data available
<b>Serious eye damage/irritation</b>
No data available
<b>Respiratory or skin sensitisation</b>
No data available
<b>Germ cell mutagenicity</b>
No data available
<b>Reproduction toxicity</b>
No data available
<b>Carcinogenicity</b>
No data available
<b>STOT-single exposure</b>
No data available
<b>STOT-repeated exposure</b>
No data available
<b>Aspiration hazard</b>
No data available
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>
By appropriate use of the product no health damage is known.

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Fish toxicity</b>			
LC50	>	100	mg/l
<b>Daphnia toxicity</b>			
No data available			
<b>Algae toxicity</b>			
No data available			
<b>Bacteria toxicity</b>			
EC50	>	100	mg/l

### 12.2 Persistence and degradability

<b>Biodegradability</b>	
Remarks	The product is biodegradable.



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### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

#### Other information

Do not discharge product unmonitored into the environment.

## 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information

No data available.

### 14.6 Special precautions for user

No data available.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

#### Restriction of occupation

Adhere to the national sanitary and occupational safety regulations when using this product.

#### Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

#### Remarks

Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

### 15.2 Chemical safety assessment

No data available.



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### SECTION 1: General information

**Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Formula  
F.P.

Nestle 410 CAPOL

MSDS  
attached

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

VOC Data Sheet:  
Properties of the Coating "As Supplied" by the Manufacturer

from Thosthuse

Coating manufacturer: Kaul GmbH

Coating identification: CAPOL® 410 C

Batch identification: first two digits: day of manufacture; second two digits: week of manufacture; third two digits: year of manufacture

Supplied to: Centerchem, Inc.

Properties of the coating as supplied<sup>1</sup> to the customer:

A. Coating density (D<sub>c</sub>)<sub>s</sub>: ~ 0,96 kg/L 8.00 lbs/gal  
☐ ASTM D1475 ☒ Other<sup>2</sup> (Pyknometer)

B. Total volatiles (W<sub>v</sub>)<sub>s</sub>: ~ 0,4 Weight percent 0.6 lbs VOC/gal  
☐ ASTM D2369 ☒ Other<sup>2</sup>

Method: IR-drying

C. Water (and exempt compounds) content:

1. (W<sub>w</sub>)<sub>s</sub>: ~ 0,4 Weight percent  
☐ ASTM D3792 ☐ ASTM D4017 ☐ Other<sup>2</sup>

2. (V<sub>w</sub>)<sub>s</sub>: ~ 0,4 Volume percent  
☒ Calculated ☐ Other<sup>2</sup>

D. Organic volatiles (W<sub>o</sub>)<sub>s</sub>: 0 Weight percent

E. Non-volatiles content (V<sub>n</sub>)<sub>s</sub>: ~99,6 Volume percent

F. VOC content (VOC)<sub>s</sub>: 1. 0 lb/gal coating less water and exempt cmpds - compliant  
or 0 kg/L coating less water and exempt cmpds  
2. 0 lb/gal solids  
or 0 kg/L solids

Remarks: (use reverse side):

Signed: 

Date: 2009-04-15

<sup>1</sup> The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.

<sup>2</sup> Explain the other method used under "Remarks."

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## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylac

**Product no.:** Eth-003

**Current version :** 1.8.0, issued: 10.04.2012

**Replaced version:** 1.7.0, issued: 22.02.2012

**Region:** GB

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Trade name**

**CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylacetate)**

**CAPOL® 10021, CAPOL® 10023, CAPOL® 157 C, CAPOL® 160 C**

**CAPOL® 163 C, CAPOL® 214 C, CAPOL® 217 P, CAPOL® 218 C**

**CAPOL® 219 C, CAPOL® 315 C, CAPOL® 315 KL**

**CAPOL® 316 C, CAPOL® 4642**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Glazing, antisticking and polishing agents for the food industry

#### 1.3 Details of the supplier of the safety data sheet

**Address**

Capol GmbH

Otto-Hahn-Straße 10

25337 Elmshorn

**Telephone no.** +49 (0)41 21 / 47 74 - 0

**Fax no.** +49 (0)41 21 / 47 74 - 29

**Information provided by / telephone**

+49 (0)41 21 / 47 74-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

#### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies (advice in English):

+44 (0)1865 407333 (NCEC, National Chemical Emergency Centre)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification in accordance with Directive 67/548/EEC or 1999/45/EC

F; R11

#### 2.2 Label elements

Labelling according to Directive 1999/45/EC

**Hazard symbols**



Highly flammable

**R phrases**

11

Highly flammable.

**S phrases**

7/9

Keep container tightly closed and in a well-ventilated place.

16

Keep away from sources of ignition --- No smoking.



## Safety data sheet in accordance with 1907/2006/EC

Trade name: CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylac

Product no.: Eth-003

Current version : 1.8.0, issued: 10.04.2012

Replaced version: 1.7.0, issued: 22.02.2012

Region: GB

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

Chemical characterization

Mixture (preparation)

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Concentration
1	ethanol		%-b.w.
	64-17-5 200-578-6 603-002-00-5 -	F; R11	> 50,00 - < 100,00 %-b.w.
2	ethyl-acetate		%-b.w.
	141-78-6 205-500-4 607-022-00-5 -	F; R11 Xi; R36 R66 R67	> 1,00 - < 5,00 %-b.w.

Full Text for all R-phrases: pls. see section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water. Don't use solvents.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam; extinguishing powder; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

Full water jet





## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylac

**Product no.:** Eth-003

**Current version :** 1.8.0, issued: 10.04.2012

**Replaced version:** 1.7.0, issued: 22.02.2012

**Region:** GB

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Combustion products of this material have to be classed invariably as respiratory poison.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

#### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Recommended storage temperature

Value	max.	25	°C
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#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

#### Advice on storage assembly

Do not store together with: Alkali metals; Oxidizing agents

### 7.3 Specific end use(s)

No data available.



## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylac

**Product no.:** Eth-003

**Current version :** 1.8.0, issued: 10.04.2012

**Replaced version:** 1.7.0, issued: 22.02.2012

**Region:** GB

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
	List of approved workplace exposure limits (WELs) / EH40		
	Ethanol		
	TWA	1920 mg/m <sup>3</sup>	1000 ml/m <sup>3</sup>
2	ethyl-acetate	141-78-6	205-500-4
	List of approved workplace exposure limits (WELs) / EH40		
	Ethyl acetate		
	STEL		400 ml/m <sup>3</sup>
	TWA		200 ml/m <sup>3</sup>

#### 8.2 Exposure controls

##### **Appropriate engineering controls**

No data available.

##### **Personal protective equipment**

###### **Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

###### **Eye / face protection**

Safety glasses with side protection shield (EN 166)

###### **Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

###### **Other**

Normal chemical work clothing.

##### **Environmental exposure controls**

No data available.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	
liquid	
whitish to yellow-brown	
<b>Odour</b>	
alcohol-like	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	78 - 79 °C
Reference substance	Ethanol



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<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value	12	-	14
Method	closed cup		
Reference substance	Ethanol		
<b>Ignition temperature</b>			
Value		425	°C
Reference substance	Ethanol		
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
Value		3,5	% vol
<b>Upper flammability or explosive limits</b>			
Value		15	% vol
<b>Vapour pressure</b>			
Value	58	-	59 mbar
Reference temperature		20	°C
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	0,79	-	1,00 g/ml
Reference temperature		20	°C
<b>Solubility in water</b>			
Remarks	insoluble		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No data available			
<b>Viscosity</b>			
No data available			
<b>2 Other information</b>			
<b>Other information</b>			
No data available.			



## Safety data sheet in accordance with 1907/2006/EC

Trade name: CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylac

Product no.: Eth-003

Current version : 1.8.0, issued: 10.04.2012

Replaced version: 1.7.0, issued: 22.02.2012

Region: GB

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

No data available.

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

#### 10.5 Incompatible materials

Alkali metals; strong oxidizing agents

#### 10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute oral toxicity		
LD50	6200	mg/kg
Species	rat	
Reference substance	Ethanol	
Acute dermal toxicity		
No data available		
Acute inhalational toxicity		
LC50	124,7	mg/l
Duration of exposure	4	h
Species	rat	
Reference substance	Ethanol	



## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylac

**Product no.:** Eth-003

**Current version :** 1.8.0, issued: 10.04.2012

**Replaced version:** 1.7.0, issued: 22.02.2012

**Region:** GB

### **Skin corrosion/irritation**

No data available

### **Serious eye damage/irritation**

No data available

### **Respiratory or skin sensitisation**

No data available

### **Germ cell mutagenicity**

No data available

### **Reproduction toxicity**

No data available

### **Carcinogenicity**

No data available

### **STOT-single exposure**

No data available

### **STOT-repeated exposure**

No data available

### **Aspiration hazard**

No data available

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Inhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Fish toxicity**

No data available

#### **Daphnia toxicity**

No data available

#### **Algae toxicity**

No data available

#### **Bacteria toxicity**

No data available

### **12.2 Persistence and degradability**

No data available.

### **12.3 Bioaccumulative potential**

No data available.

### **12.4 Mobility in soil**

No data available.

### **12.5 Results of PBT and vPvB assessment**

No data available.

### **12.6 Other adverse effects**

No data available.

### **12.7 Other information**

#### **Other information**

Ecological data are not available.

Do not discharge product unmonitored into the environment.



## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylac

**Product no.:** Eth-003

**Current version :** 1.8.0, issued: 10.04.2012

**Replaced version:** 1.7.0, issued: 22.02.2012

**Region:** GB

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

##### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

### SECTION 14: Transport information

#### 14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1170
Technical name	ETHANOL, SOLUTION
Tunnel restriction code	D/E
Label	3

#### 14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1170
Proper shipping name	ETHANOL SOLUTION
EmS	F-E+S-D
Label	3

#### 14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
UN number	UN1170
Proper shipping name	Ethanol solution
Label	3

#### 14.4 Other information

No data available.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulations

##### Restriction of occupation

Adhere to the national sanitary and occupational safety regulations when using this product.

**Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks Annex I, part 2, category 7 b

#### 15.2 Chemical safety assessment

No data available.





## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, based on Ethanol (denatured with Ethylac

**Product no.:** Eth-003

**Current version :** 1.8.0, issued: 10.04.2012

**Replaced version:** 1.7.0, issued: 22.02.2012

**Region:** GB

### SECTION 16: Other Information

**Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

VOC Data Sheet:  
Properties of the Coating "As Supplied" by the Manufacturer

Coating manufacturer: Kaul GmbH

Coating identification: CAPOL<sup>®</sup> 217 P

*Nespe*

Batch identification: first two digits: day of manufacture; second two digits: week of manufacture; third two digits: year of manufacture

Supplied to: Centerchem, Inc.

Properties of the coating as supplied<sup>1</sup> to the customer:

A. Coating density (D<sub>c</sub>)<sub>s</sub>: ~ 7,10 lb/gal ~ 0,85 kg/L

☒ ASTM D1475 ☐ Other<sup>2</sup>

B. Total volatiles (W<sub>v</sub>)<sub>s</sub>: ~ 70 Weight percent

☐ ASTM D2369 ☒ Other<sup>2</sup>

Method: IR-drying; 100 °C; auto-stop

C. Water (and exempt compounds) content:

1. (W<sub>w</sub>)<sub>s</sub>: < 1 Weight percent

☐ ASTM D3792 ☐ ASTM D4017 ☐ Other<sup>2</sup>

2. (V<sub>w</sub>)<sub>s</sub>: < 1 Volume percent

☒ Calculated ☐ Other<sup>2</sup>

D. Organic volatiles (W<sub>o</sub>)<sub>s</sub>: ~ 70 Weight percent (ethanol)

E. Non-volatiles content (V<sub>n</sub>)<sub>s</sub>: ~ 25,8 Volume percent

F. VOC content (VOC)<sub>s</sub>:  
1. ~ 4,92 lb/gal coating less water and exempt cmpds  
or ~ 0,59 kg/L coating less water and exempt cmpds  
2. ~ 19,4 lb/gal solids  
or ~ 2,33 kg/L solids

Remarks: (use reverse side): term "cmpds" not known

Signed:  Date: 2006-12-11

*no water/  
exempt*

<sup>1</sup> The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.

<sup>2</sup> Explain the other method used under "Remarks."

107515



## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

**Product no.:** Eth-001

**Current version :** 2.0.0, issued: 28.06.2012

**Replaced version:** 1.6.0, issued: 27.02.2012

**Region:** GB

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name

**CAPOL® Glazing, antisticking and polishing agents, Ethanol-based**  
**CAPOL CC 190, CAPOL CC 190 KL, CAPOL CC 190 KL Kosher**  
**CAPOL® 150 C, CAPOL® 153 D, CAPOL® 155 C, CAPOL® 180 L**  
**CAPOL® 180 L liquid, CAPOL® 180 LH, CAPOL® 425, CAPOL® 425 M**  
**CAPOL® 425 MD, CAPOL® 425 MH, CAPOL® 425 MM, CAPOL® 426 M**  
**CAPOL® 427, CAPOL® 427 M, CAPOL® 427 MD, CAPOL® 4538/2**  
**CAPOL® 4646, CAPOL® 4654, CAPOL® 4725 A, CAPOL® 4726**  
**CAPOL® 4825, CAPOL® 4993, CAPOL® 5020, CAPOL® 5075**  
**CAPOL® 5096 FM, CAPOL® 5116, CAPOL® 5186, CAPOL® 5186 K**  
**CAPOL® 5238, CAPOL® 5270 PH 10 %, CAPOL® 5422, CAPOL® 5424**  
**CAPOL® 5429, CAPOL® 5451, CAPOL® 5469 K, CAPOL® 5471**  
**CAPOL® 5472, CAPOL® 5479, CAPOL® 5481**  
**CAPOL® 600, CAPOL® 600 P, CAPOL® 600 Pharma, CAPOL® 610**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Glazing, antisticking and polishing agents for the food industry

#### 1.3 Details of the supplier of the safety data sheet

Address

Capol GmbH

Otto-Hahn-Straße 10

25337 Elmshorn

Telephone no. +49 (0)41 21 / 47 74 - 0

Fax no. +49 (0)41 21 / 47 74 - 29

Information provided by / telephone

+49 (0)41 21 / 47 74-0

Advice on Safety Data Sheet

sdb\_info@umco.de

#### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftnformationszentrum Nord)

In case of transport incidents and other emergencies (advice in English):

+44 (0)1865 407333 (NCEC, National Chemical Emergency Centre)

### SECTION 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification in accordance with Directive 67/548/EEC or 1999/45/EC

F; R11



## Safety data sheet in accordance with 1907/2006/EC

Trade name: CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

Product no.: Eth-001

Current version : 2.0.0, issued: 28.06.2012

Replaced version: 1.6.0, issued: 27.02.2012

Region: GB

### 2.2 Label elements

#### Labelling according to Directive 1999/45/EC

##### Hazard symbols



Highly flammable

##### R phrases

11 Highly flammable.

##### S phrases

7/9 Keep container tightly closed and in a well-ventilated place.  
16 Keep away from sources of ignition --- No smoking.

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/Information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Chemical characterization

Mixture (preparation)

#### Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Concentration % - b.w.
1	ethanol		
	64-17-5 200-578-6 603-002-00-5 -	F; R11	> 50.00 - < 100.00 % - b.w.

Full Text for all R-phrases: pls. see section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

#### After skin contact

Wash off immediately with soap and water. Don't use solvents.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

#### After ingestion

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person.



## Safety data sheet in accordance with 1907/2006/EC

Trade name: CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

Product no.: Eth-001

Current version : 2.0.0, issued: 28.06.2012

Replaced version: 1.6.0, issued: 27.02.2012

Region: GB

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

Alcohol-resistant foam; extinguishing powder; Carbon dioxide; Water spray jet

**Unsuitable extinguishing media**

Full water jet

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Combustion products of this material have to be classed invariably as respiratory poison.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.



## Safety data sheet in accordance with 1907/2006/EC

Trade name: CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

Product no.: Eth-001

Current version : 2.0.0, issued: 28.06.2012

Replaced version: 1.6.0, issued: 27.02.2012

Region: GB

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Recommended storage temperature

Value max. 25 °C

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

#### Advice on storage assembly

Do not store together with: Alkali metals; Oxidizing agents

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
List of approved workplace exposure limits (WELs) / EH40			
	Ethanol		
	TWA	1920	mg/m <sup>3</sup> 1000 ml/m <sup>3</sup>

### 8.2 Exposure controls

#### Appropriate engineering controls

No data available.

#### Personal protective equipment

##### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

##### Eye / face protection

Safety glasses with side protection shield (EN 166)

##### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

##### Other

Normal chemical work clothing.

##### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form/Colour
liquid to pasty
whitish to redbrown
Odour
alkohol-like





# Safety data sheet in accordance with 1907/2006/EC

Trade name: CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

Product no.: Eth-001

Current version : 2.0.0, issued: 28.06.2012

Replaced version: 1.6.0, issued: 27.02.2012

Region: GB

<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
Value	78	-	79 °C
Reference substance	Ethanol		
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value	12	-	14
Method	closed cup		
Reference substance	Ethanol		
<b>Ignition temperature</b>			
Value		425	°C
Reference substance	Ethanol		
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
Value		3.5	% vol
<b>Upper flammability or explosive limits</b>			
Value		15	% vol
<b>Vapour pressure</b>			
Value	58	-	59 mbar
Reference temperature		20	°C
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	0.79	-	1.13 g/ml
Reference temperature		20	°C
<b>Solubility in water</b>			
Remarks	insoluble		



## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

**Product no.:** Eth-001

**Current version :** 2.0.0, issued: 28.06.2012

**Replaced version:** 1.6.0, issued: 27.02.2012

**Region:** GB

<b>Solubility(ies)</b>
No data available
<b>Partition coefficient: n-octanol/water</b>
No data available
<b>Viscosity</b>
No data available

### 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

### 10.5 Incompatible materials

Alkali metals; strong oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>			
LD50		6200	mg/kg
Species	rat		
Reference substance	Ethanol		
<b>Acute dermal toxicity</b>			
No data available			
<b>Acute inhalational toxicity</b>			
LC50		124.7	mg/l
Duration of exposure		4	h
Species	rat		
Reference substance	Ethanol		





## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

**Product no.:** Eth-001

**Current version :** 2.0.0, issued: 28.06.2012

**Replaced version:** 1.6.0, issued: 27.02.2012

**Region:** GB

<b>Skin corrosion/irritation</b>
No data available
<b>Serious eye damage/irritation</b>
No data available
<b>Respiratory or skin sensitisation</b>
No data available
<b>Germ cell mutagenicity</b>
No data available
<b>Reproduction toxicity</b>
No data available
<b>Carcinogenicity</b>
No data available
<b>STOT-single exposure</b>
No data available
<b>STOT-repeated exposure</b>
No data available
<b>Aspiration hazard</b>
No data available
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>
Inhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Fish toxicity</b>
No data available
<b>Daphnia toxicity</b>
No data available
<b>Algae toxicity</b>
No data available
<b>Bacteria toxicity</b>
No data available

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

<b>Other information</b>
Do not discharge product unmonitored into the environment.



## Safety data sheet in accordance with 1907/2006/EC

Trade name: CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

Product no.: Eth-001

Current version : 2.0.0, issued: 28.06.2012

Replaced version: 1.6.0, issued: 27.02.2012

Region: GB

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

##### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

### SECTION 14: Transport information

#### 14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1170
Technical name	ETHANOL, SOLUTION
Tunnel restriction code	D/E
Label	3

#### 14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1170
Proper shipping name	ETHANOL SOLUTION
EmS	F-E+S-D
Label	3

#### 14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
UN number	UN1170
Proper shipping name	Ethanol solution
Label	3

#### 14.4 Other information

No data available.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulations

##### Restriction of occupation

Adhere to the national sanitary and occupational safety regulations when using this product.

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 2, category 7 b

#### 15.2 Chemical safety assessment

No data available.



## Safety data sheet in accordance with 1907/2006/EC

**Trade name:** CAPOL® Glazing, antisticking and polishing agents, Ethanol-based

**Product no.:** Eth-001

**Current version :** 2.0.0, issued: 28.06.2012

**Replaced version:** 1.6.0, issued: 27.02.2012

**Region:** GB

### SECTION 16: Other information

**Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

VOC Data Sheet:  
Properties of the Coating "As Supplied" by the Manufacturer

Coating manufacturer: Kaul GmbH

Coating identification: CAPOL<sup>®</sup> 153 D

Batch identification: first two digits: day of manufacture; second two digits: week of manufacture; third two digits: year of manufacture

Supplied to: Centerchem, Inc.

Properties of the coating as supplied<sup>1</sup> to the customer:

A. Coating density (D<sub>c</sub>)<sub>s</sub>: ~ 7,4 lb/gal ~ 0,89 kg/L

☒ ASTM D1475 ☐ Other<sup>2</sup>

B. Total volatiles (W<sub>v</sub>)<sub>s</sub>: ~ 65 Weight percent

☐ ASTM D2369 ☒ Other<sup>2</sup>

Method: IR-drying; 100 °C; auto-stop

C. Water (and exempt compounds) content:

1. (W<sub>w</sub>)<sub>s</sub>: < 1 Weight percent

☐ ASTM D3792 ☐ ASTM D4017 ☐ Other<sup>2</sup>

2. (V<sub>w</sub>)<sub>s</sub>: < 1 Volume percent

☒ Calculated ☐ Other<sup>2</sup>

D. Organic volatiles (W<sub>o</sub>)<sub>s</sub>: ~ 65 Weight percent (ethanol)

E. Non-volatiles content (V<sub>n</sub>)<sub>s</sub>: ~ 30,7 Volume percent

F. VOC content (VOC)<sub>s</sub>:  
1. ~ 4,6 lb/gal coating less water and exempt cmpds  
or ~ 0,55 kg/L coating less water and exempt cmpds  
2. ~ 15,5 lb/gal solids  
or ~ 1,86 kg/L solids

Remarks: (use reverse side): term "cmpds" not known

Signed:  Date: 2007-07-09

<sup>1</sup> The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.

<sup>2</sup> Explain the other method used under "Remarks."

7.11 x 0.65  
= 4.61 lb/gal  
= 1.86 kg/L

108333

**MANTROSE -HAEUSER COMPANY**  
**1175 POST ROAD EAST**  
**WESTPORT, CT 06880**

**MATERIAL SAFETY DATA SHEET**

**SECTION I-IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY UNDERTAKING**

MSDS NO:  
DATE: 1/9/95

EMERGENCY NO: 1-800-255-3924 (CHEMTEL)  
INTERNATIONAL ACCESS CODE +1-813-248-0585

REVISION DATE: 6/21/01  
Supersedes 8/3/00  
PREPARED BY: ELAINE ALTONIAN

GENERAL INFORMATION NO:(203)-454-1800  
(MANTROSE-HAEUSER CO.)

PRODUCT NAME: LICABEE

SYNONYMS: POLISHING COMPOUND

CHEMICAL FAMILY: Natural Waxes/D-Limonene

**SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS**

COMPOSITION	CAS RN	NOMINAL %	PEL/TLV	HAZARD
D-Limonene	5989-27-5	82.0	N/DA	

di-methyl-4-Isopropyl-1-Cyclohexane. This is a food-grade by-product of citrus, entirely of natural origin.

**SECTION III - HAZARDS: (IDENTIFY)**

PRIMARY ROUTE OF ENTRY: Inhalation - Provide local exhaust.

INGESTION: Harmful if swallowed. Contact a physician or poison control center immediately.

EYE CONTACT: Flush with water for at least 15 minutes. If irritation persists, contact a physician.

SKIN CONTACT: Wash with soap and water. Contact a physician if necessary..

HMIS RATING: 1/2/0

---

#### **SECTION IV - FIRST AID MEASURES**

---

FOR OVEREXPOSURE BY:

**SWALLOWING:** CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. Do not induce vomiting unless advised by physician of poison control center.

**INHALATION:** Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

**CONTACT WITH EYES OR SKIN:** Immediately flush affected area with plenty of cool water. Eyes should be flushed for at least 15 minutes. Remove and wash contaminated clothing before re-use. GET MEDICAL ATTENTION if irritation persists.

---

#### **SECTION V - FIRE FIGHTING MEASURES**

---

Use dry chemical, foam, or Carbon Dioxide. Firefighters should wear a self-contained breathing apparatus when exposed to fumes. Smother fire to exclude air. DO NOT USE WATER! Handle as oil fire, Class B fire procedures.

**UNUSUAL FIRE & EXPLOSION HAZARDS:**

Combustible liquid. Keep away from heat, sparks and open flames.

NFPA rating: Class IIIB, Combustible liquid

---

#### **SECTION VI - ACCIDENTAL RELEASE MEASURES**

---

Remove all potential sources of ignition. Contain spill with inert non-combustible absorbent material, and place in approved containers for disposal.

---

#### **SECTION VII - HANDLING & STORAGE**

---

Store away from sparks, high heat and open flames. Store in sprinklered warehouse. Keep temperature below 140 ° F for quality control. Avoid acids and oxidizing agents. Store in tightly sealed containers. Clean up all spills. All handling equipment should be electrically grounded.

Other precautions: Product may expand slightly in storage causing pressure to build in container. Open container carefully if product appears to be under pressure.

---

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Control Measures:

Local exhaust should be adequate. Mechanical ventilation otherwise recommended if necessary.

Respiratory Protection: Not normally required. If vapor concentration becomes high, use self-contained air mask.

Protective clothing: Wear chemically resistant gloves and protective clothing which are impervious to this product as deemed necessary.

Eye Protection: Wear chemical splash goggles or face shield.

---

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

---

BOILING POINT: 325°F                      SPECIFIC GRAVITY (H<sub>2</sub>O=1): 0.86  
MELTING POINT: N/A                      SOLUBILITY IN WATER: Nil      VAPOR PRESSURE( mm/HG): 1.2  
EVAPORATION RATE: (Butyl Acetate=1): >1      VAPOR DENSITY (air = 1): > 1  
APPEARANCE/COLOR: Off white, opaque solution  
pH: N/A      FLASH POINT: 117°F Tag closed cup      ODOR: Citrus

---

## SECTION X - STABILITY AND REACTIVITY

---

STABILITY: Generally Stable                      HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS/MATERIALS TO AVOID: Sparks, high heat, open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke may be acrid and fumes irritating. Burning generates carbon monoxide and carbon dioxide.

INCOMPATIBILITY: Strong oxidizing and acidic agents.

---

## SECTION XI - TOXICOLOGICAL INFORMATION

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N/A

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## SECTION XII - ECOLOGICAL INFORMATION

---

Avoid uncontrolled releases of this material.

---

## SECTION XIII - DISPOSAL INFORMATION

---

Dispose of in accordance with Federal, State and local regulations.



---

**SECTION XIV TRANSPORTATION INFORMATION**

---

	<u>D.O.T.</u>	<u>ICAO/IATA/EUROPEAN</u>
CLASSIFICATION:	Flammable	Flammable
CLASS:	3	3
PROPER SHIPPING NAME:	Coating Solution	Coating Solution
ID NUMBER	UN 1139	UN1139
PACKING GROUP:	III	III
FLASH POINT:	117°F	

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**SECTION XV - REGULATORY INFORMATION:**

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SARA 313: N/A

---

**SECTION XVI - OTHER INFORMATION:**

---

Format change Issued to conform to DSD 67/548/EEC and DPD 88/379/EEC DPD 91/155/EEC.

**Revision Log:**

<u>Date:</u>	<u>Revision:</u>	<u>By Whom:</u>
2/3/98	Remove Certicoat from name	Steve Santos
2/23/98	Section XIV	Don Young
4/19/99	Section XIV, Eliminate D.O.T. in left heading	Don Young
4/28/99	Section XIV, headings	Don Young
8/3/00	Section XIV, classification, Id number, Pack group	DLY
6/21/01	Change International access phone number	DLY

**APPROVED BY: DON YOUNG**

---

**FINAL APPROVAL BY : Steve Santos**

**Certicoat/Licabee/H drive**

---

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

## VOC DATA SHEET

### Properties of the Coating "as Supplied" by the Manufacturer

Coating Manufacturer: Mantrose-Hauser Co., Inc.  
Coating Identification: Licabee  
Batch Identification: N/A; Theoretical  
Supplied To: Ferrara Candy Company  
VOC Testing Method: EPA Reference Method 24

Properties of the coating as supplied<sup>1</sup> to the customer:

- A. Coating Density ( $D_c$ )<sub>s</sub>: 7.14 Lbs. / gal.  
\_\_\_\_ ASTM D1475 XX Other<sup>2</sup>
- B. Total Volatiles ( $W_v$ )<sub>s</sub>: 82.00% Weight Percent  
\_\_\_\_ ASTM D2369 XX Other<sup>2</sup>
- C. Water Content: 1. ( $W_w$ )<sub>s</sub>: 0% Weight Percent  
\_\_\_\_ ASTM 3792 \_\_\_\_ ASTM D4017 XX Other<sup>2</sup>  
2. ( $V_w$ )<sub>s</sub>: 0% Volume Percent  
XX Calculated \_\_\_\_ Other<sup>2</sup>
- D. Organic Volatiles ( $W_o$ )<sub>s</sub>: 82.00 % Weight Percent
- E. Nonvolatiles Content ( $V_n$ )<sub>s</sub>: 16.06% Volume Percent
- F. VOC Content (VOC)<sub>s</sub>: 1. 5.85 Lbs. / gal. Coating less water  
0.70 kilos / liter Coating less water  
2. 36.46 Lbs. / gal. Solids  
4.34 kilos / liter Solids
- Actual 5.85 lbs VOC/gal*

#### Remarks:

<sup>1</sup>The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.

<sup>2</sup>theoretical, calculated as per formulation

Signed

Date

8/28/13

# SAFETY DATA SHEET

HCS-2012 APPENDIX D TO §1910.1200

Version 1

Product Name CAPOL® 245 C; CAPOL® 265 C; CAPOL® 485 C

Issue Date 13-May-2015

Revision date 13-May-2015

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name

CAPOL® 245 C; CAPOL® 265 C; CAPOL® 485 C

### Other means of identification

Synonyms

No information available

### Recommended use of the chemical and restrictions on use

Recommended Use

Glazing agents for the food industry

Uses advised against

No information available

### Details of the supplier of the safety data sheet

Importer

Capol GmbH

Address

Otto-Hahn-Straße 10

25337 Elmshorn

Postal Code

25337

Phone

+49 (0)41 21 / 47 74 - 0

FAX

+49 (0)41 21 / 47 74 - 29

E-mail

info@capol.de

### Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies (advice in English):

+44 (0)1865 407333 (NCEC, National Chemical Emergency Centre)

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Flammable liquids Category 3

Skin corrosion/irritation Category 2

Skin sensitization Category 1

Hazardous to the aquatic environment - Acute Hazard Category 1

Hazardous to the aquatic environment - Chronic Hazard Category 1

### Label elements

Symbols/Pictograms



Signal word

Warning

Hazard Statements

Flammable liquid and vapor

Causes skin irritation

May cause an allergic skin reaction

Very toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention	Keep away from heat/sparks/open flames/hot surfaces.— No smoking. Keep container tightly closed. Wash contacted area thoroughly after handling. Wear protective gloves. Ground/Bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Response	Contaminated work clothing must not be allowed out of the workplace. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower In case of fire: Use dry chemical, CO <sub>2</sub> , water spray or alcohol-resistant foam. to extinguish. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.
Storage	Avoid release to the environment. Store in a well ventilated place. Keep cool.
Disposal	Collect spillage. Dispose of contents/container in accordance with local/regional/national/international regulations

**Hazards not otherwise classified (HNOC)**

No information available

**Unknown acute toxicity**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature	Mixture		
Chemical Name	CAS No	Weight-%	
Limonene/ Orangen-terpene	8028-48-6	10 - 45	
White mineral oil	8042-47-5	10 - 85	

-see Vol data sheet

**4. FIRST AID MEASURES****Description of first aid measures**

General advice	Remove contaminated clothing and shoes. If symptoms persist, call a physician.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin Contact	Wash off immediately with plenty of water. Consult a physician if necessary.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Causes skin irritation. May cause an allergic skin reaction.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

Unsuitable extinguishing media High power water jet

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas

Avoid contact with skin, eyes or clothing

Evacuate personnel to safe areas

Remove all sources of ignition

Use personal protection recommended in Section 8

### Methods and material for containment and cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice

Ensure adequate ventilation, especially in confined areas

Do not eat, drink or smoke when using this product

Keep away from heat, sparks, flame and other sources of ignition

Avoid contact with skin, eyes or clothing

Remove contaminated clothing and shoes

Wash thoroughly after handling

Use personal protection recommended in Section 8

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place

Store at room temperature

Keep only in original container

Incompatible with oxidizing agents

Keep away from heat, sparks, flame and other sources of ignition

Keep away from food, drink and animal feeding stuffs

Store in accordance with local regulations

Recommended storage temperature: max. 25 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Chemical Name	Latvia	France	Finland	Germany	Italy
---------------	--------	--------	---------	---------	-------

White mineral oil (CAS #: 8042-47-5)		-	-	TWA: 5 mg/m <sup>3</sup> Ceiling / Peak: 20 mg/m <sup>3</sup>	-
--------------------------------------	--	---	---	--	---

**Appropriate engineering controls**

Ventilation systems

**Individual protection measures, such as personal protective equipment**

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hand Protection	Wear protective gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Appearance	Pasty
Color	Brownish yellow
Odor	Orange-like
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	173-178°C
Flash point	43°C
Evaporation rate	Not determined
Flammability	Flammable
Flammability Limit in Air	0.7% vol-6.1 % vol
Vapor Pressure	2.0 - 2.3 mbar(20°C)
Vapor density	Not determined
Density	0.83 - 0.85 g/ml(20°C)
Relative density	Not determined
Bulk density	Not determined
Specific gravity	Not determined
Water solubility	Essentially insoluble
Partition coefficient (LogPow)	Limonene/ Orangen-terpene: log Pow >=4 White mineral oil: log Pow >6
Autoignition temperature	250-255°C
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

**Other information**

No information available

**10. STABILITY AND REACTIVITY****Reactivity**

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

**Chemical stability**

Stable under normal conditions

**Possibility of Hazardous Reactions**

None under normal processing

**Conditions to avoid**

Extremes of temperature and direct sunlight

**Incompatible materials**

Alkali metal. Strong oxidizing agents

**Hazardous Decomposition Products**

No hazardous decomposition products if stored and handled as prescribed.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Inhalation	No known effect based on information supplied
Eye contact	Contact with eyes may cause irritation
Skin Contact	Substance may cause slight skin irritation
Ingestion	No known effect based on information supplied

**Information on toxicological effects****Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
White mineral oil (CAS #: 8042-47-5)	> 5000 mg/kg ( Rat )	-	-

**Skin corrosion/irritation**

Causes skin irritation

**Serious eye damage/eye irritation**

No information available

**Sensitization**

May cause an allergic skin reaction

**Germ cell mutagenicity**

No information available

**Carcinogenicity**

No information available

**Reproductive toxicity**

No information available

**STOT - single exposure**

No information available

**STOT - repeated exposure**

No information available

**Aspiration hazard**

No information available

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
---------------	---------------------------	-----------	----------------



White mineral oil (CAS #: 8042-47-5)	-	10000: 96 h <i>Lepomis macrochirus</i> mg/L LC50	-
--------------------------------------	---	--	---

**Persistence and degradability**

Limonene/ Orangen-terpene: readily biodegradable

**Bioaccumulative potential**

Chemical Name	Partition coefficient (LogPow)
White mineral oil (CAS #: 8042-47-5)	>6

**Mobility in soil**

No information available

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging Dispose of in accordance with federal, state and local regulations

**14. TRANSPORT INFORMATION****DOT**

UN/ID No. 2052

Proper shipping name DIPENTENE

Hazard Class 3

Packing Group III

Special precautions No information available

Marine pollutant Yes

**15. REGULATORY INFORMATION****International Inventories**

Component	AICS	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	TSCA
Limonene/ Orangen-Terpene 8028-48-6 ( 30 - 60 )	X	X	X	-	X	X	X	X
White mineral oil 8042-47-5 ( 15 - 40 )	X	X	X	X	X	X	X	X

"- " Not Listed

"X" Listed

**US Federal Regulations****SARA 313**

Not apply

**SARA 311/312 Hazard Categories**

Not apply

**CWA (Clean Water Act)**

Not apply

**CERCLA**

Not apply

**US State Regulations**

California Proposition 65

Not apply

U.S. State Right-to-Know Regulations

Not apply

**16. OTHER INFORMATION****Revision Note**

Issue Date	13-May-2015
Revision date	13-May-2015
Revision Note	Not applicable

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**TWA** - TWA (time-weighted average)  
**STEL** - STEL (Short Term Exposure Limit)  
**Ceiling** - Maximum limit value  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

VOC Data Sheet:  
Properties of the Coating "As Supplied" by the Manufacturer

Coating manufacturer: Kaul GmbH

Coating identification: CAPOL<sup>®</sup> 245 C

Batch identification: first two digits: day of manufacture; second two digits: week of manufacture; third two digits: year of manufacture

Supplied to: Centerchem, Inc.

Properties of the coating as supplied<sup>1</sup> to the customer:

A. Coating density ( $D_c$ )<sub>s</sub>: ~ 7,35 lb/gal ~ 0,88 kg/L

☐ ASTM D1475 ☒ Other<sup>2</sup> appr. value; product is a paste

B. Total volatiles ( $W_v$ )<sub>s</sub>: ~ 30 Weight percent

☐ ASTM D2369 ☒ Other<sup>2</sup>

Method: IR-drying; 75 °C; 20 minutes

C. Water (and exempt compounds) content:

1. ( $W_w$ )<sub>s</sub>: < 1 Weight percent

☐ ASTM D3792 ☐ ASTM D4017 ☐ Other<sup>2</sup>

2. ( $V_w$ )<sub>s</sub>: < 1 Volume percent

☒ Calculated ☐ Other<sup>2</sup>

D. Organic volatiles ( $W_o$ )<sub>s</sub>: ~ 30 Weight percent (limonene)

E. Non-volatiles content ( $V_n$ )<sub>s</sub>: ~ 66,2 Volume percent

F. VOC content ( $VOC$ )<sub>s</sub>:  
1. ~ 2,17 lb/gal coating less water and exempt cmpds  
or ~ 0,26 kg/L coating less water and exempt cmpds  
2. ~ 3,58 lb/gal solids  
or ~ 0,43 kg/L solids

Remarks: (use reverse side): term "cmpds" not known

Signed: 

Date: 2006-12-11

<sup>1</sup> The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.

<sup>2</sup> Explain the other method used under "Remarks."

102730



20 Glover Avenue, Norwalk, CT 08850  
Tel: (203) 822-9800 Fax: (203) 822-9820  
e-mail: foodIngredients@centerchem.com  
www.centerchem.com



## CAPOL<sup>®</sup> 265 - VOC Values

### Polishing Agent for Soft and Hard Panned Confectionery

Manufactured by Kaul GmbH (Elmshorn, Germany)  
Centerchem, Inc., Exclusive North American Distributor

Organic Volatile:	limonene	
Coating Density:	~ 6.9 - 7.1	lb/gal (paste)
Coating Density:	~ 0.83 - 0.85	kg/liter (paste)
Total Volatiles:	~ 40	Weight Percent
Water Content:	~ <u>0</u>	Weight Percent
Organic Volatiles:	~ 40	Weight Percent
Non-volatiles Content:	~ 55.8	Volume Percent
VOC Content:	~ 3.1	lb/gal
VOC Content:	~ 0.37	kg/liter

March 2006

Kaul GmbH  
Otto-Hahn-Strasse 10  
D-25337 Elmshorn, GERMANY  
Tel: 49.4121.4774.0 Fax 49.4121.4774.742



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# 107240

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

VOC Data Sheet:  
Properties of the Coating "As Supplied" by the Manufacturer

Coating manufacturer: Capol GmbH \_\_\_\_\_

Coating identification: GLAZE CAPOL 485C GEN

Batch identification: 6 digits code \_\_\_\_\_

Supplied to: Ferrara USA

Properties of the coating as supplied<sup>1</sup> to the customer:

A. Coating density ( $D_c$ )<sub>s</sub>: \_\_\_\_\_ lb/gal 0.85 kg/L

☒ ASTM D1475 ☐ Other<sup>2</sup>

B. Total volatiles ( $W_v$ )<sub>s</sub>: ~ 10 Weight percent

☐ ASTM D2369 ☒ Other<sup>2</sup>

C. Water (and exempt compounds) content:

1. ( $W_w$ )<sub>s</sub>: \_\_\_\_\_ Weight percent

☐ ASTM D3792 ☐ ASTM D4017 ☐ Other<sup>2</sup>

2. ( $V_w$ )<sub>s</sub>: \_\_\_\_\_ Volume percent

☐ Calculated ☐ Other<sup>2</sup>

D. Organic volatiles ( $W_o$ )<sub>s</sub>: ~ 10 Weight percent

E. Non-volatiles content ( $V_n$ )<sub>s</sub>: \_\_\_\_\_ Volume percent

F. VOC content ( $VOC$ )<sub>s</sub>: 1. ~ 0.71 lb/gal coating less water and exempt cmpds \*\*\*  
or ~ 0.09 kg/L coating less water and exempt cmpds

2. \_\_\_\_\_ lb/gal solids

or \_\_\_\_\_ kg/L solids

\_\_\_\_\_ lbs VOM/lb solids applied

\_\_\_\_\_ lbs VOM/lb coatings applied \*\*\*

11/22/13  
0.71 lb/gal  
0.09 kg/L

Remarks: (use reverse side)

Signed: i.A. Ulrich Köhler  Date: 16.12.2013

<sup>1</sup> The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.

<sup>2</sup> Explain the other method used under "Remarks."

\*\*\* Minimum required data

**MANTROSE-HAEUSER COMPANY**  
**1175 POST ROAD EAST**  
**WESTPORT, CT 06880**

***MATERIAL SAFETY DATA SHEET***

---

**SECTION I - IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY UNDERTAKING**

---

DATE: 1/29/2009	EMERGENCY: (CHEMTEL) 1-800-255-3924	
REVISION DATE: REVIEWED 11-6-12	INTERNATIONAL ACCESS CODE	+1-813-248-0585
SUPERSEDES: 1/29/09	General Information No.: (203)-454-1800	
PREPARED BY: B. ZHONG	Mantrose-Haeuser Co.	
PRODUCT NAME:	SPARKLE GLOW SUNBRITE B6	
SYNONYMS:	Confectioner's Glaze	
CHEMICAL FAMILY:	Natural Waxes/Resin in Denatured Ethyl Alcohol Solution	

---

**SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS**

---

COMPOSITION	CAS RN	NOMINAL %	PEL/TLV	VAPOR PRESSURE	HAZARD
Ethyl Alcohol	64-17-5	75.0 – 89.9%	1000ppm	40mm @ 19°C	Flammable/Nervous System Depressant
Ethyl Acetate	141-78-6	3.0 – 5.9%	400ppm	100mm @ 27°C	Flammable/Irritant

*- see  
VOC  
datasheet*

---

**SECTION III - HAZARDS: (IDENTIFY)**

---

<u>INGESTION:</u>	Can cause depression of central nervous system, vomiting, nausea and diarrhea.
<u>INHALATION:</u>	Exposure to over 1000ppm may cause headache, drowsiness, and lassitude, loss of appetite and inability to concentrate. Irritation to throat.
<u>EYE CONTACT:</u>	Liquid or vapor may cause irritation.
<u>SKIN CONTACT:</u>	May cause irritation and defatting of skin on prolonged contact.
<u>HMIS RATING:</u>	1/3/0
<u>OTHER:</u>	N/A

---

## SECTION IV - FIRST AID MEASURES

---

### FOR OVER-EXPOSURE BY:

<u>INGESTION:</u>	If victim is conscious and able to swallow, have him/her drink water or milk to dilute. Never give anything by mouth if victim is unconscious or having convulsions. Call a physician or Poison Control Center immediately.
<u>CONTACT WITH EYES OR SKIN:</u>	Immediately flush affected area with plenty of cool water. Eyes should be flushed for at least 15 minutes. Remove and wash contaminated clothing before re-use. If irritation exists, consult a physician.
<u>INHALATION:</u>	Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention immediately.

---

## SECTION V - FIRE FIGHTING MEASURES

---

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO<sub>2</sub>, and Dry Chemical.

FLAMMABLE LIMITS: LEL: 3.3% UEL 19.0%

SPECIAL FIRE-FIGHTING PROCEDURES: NOTE: Individuals should perform only those fire-fighting procedures for which they have been trained. Use self-contained breathing apparatus in the positive pressure mode. Wear full protective clothing. Use water spray to cool fire-exposed containers and structures.

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapors form from this product and may settle in low places, travel along the ground or move by air currents to be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from handling point. Product contains alcohol, therefore, flames might be difficult to see because they are virtually colorless.

---

## SECTION VI - ACCIDENTAL RELEASE MEASURES

---

Wear appropriate respiratory protection and protective clothing as described in Section VIII. Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. In the event of uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.



---

## SECTION VII - HANDLING & STORAGE

---

Protect container against physical damage. Detached or outside storage is preferred. Inside storage should be in NFPA approved flammable liquids storage room or cabinet. All ignition sources should be eliminated. Smoking should be prohibited in storage areas. Electrical installations should be in accordance with Article 501 of the National Electrical Code. The NFPA 30 Flammable and Combustible Liquids Code should be followed for all storage and handling. Frequent careful leakage inspection should be done. Automatic sprinkler system should be provided. Isolate from oxidizers, chemicals capable of spontaneous heating, materials reacting with air or moisture to liberate heat ignition sources and explosives. Consult local fire codes for additional storage information.

Keep closed to prevent leakage and remove closure carefully, as internal pressure may be present. Avoid breathing vapor. Use with adequate ventilation.

---

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

---

<u>RESPIRATORY:</u>	Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirator should be selected based upon the form and concentration of contaminant in air and in accordance with OSHA (29CFR1910.134).
<u>VENTILATION:</u>	Provide local exhaust to keep concentrations below TLV/PEL.
<u>PROTECTIVE CLOTHING:</u>	Wear gloves and protective clothing, which are impervious to this product for the duration of anticipated exposure, if there is a potential for skin contact.
<u>EYE PROTECTION:</u>	Wear safety glasses, meeting the specifications of ANSI Standard Z87.1, where no contact with the eye is anticipated. Chemical safety goggles, meeting the specification of ANSI Standard Z87.1, should be worn whenever there is the possibility of splashing or other contact with the eyes.
<u>OTHER SAFETY EQUIPMENT:</u>	Eye bath and safety shower.
<u>OTHER PRECAUTIONS:</u>	Empty containers retain product residue; follow label warnings even when container is empty.

---

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

---

Boiling Point Temp.: 173°F\*    Melting Point Temp.: -173°F\*    Auto-Ignition Temp.: >685°F  
Evaporation Rate: Slower than ether.    Vapor Density: Heavier than air.  
Flash Point Temp.: 55°F\* (ASTM Tag closed cup)    Volatile Volume: ~ 82%  
Density: ~ 6.9 lbs/gal

\*for pure ethanol

---

## SECTION X - STABILITY AND REACTIVITY

---

<u>STABILITY:</u> Generally Stable	<u>HAZARDOUS POLYMERIZATION:</u> Not Likely
<u>CONDITIONS/MATERIALS TO AVOID:</u>	Contact with acetyl chloride and a wide range of oxidizers.
<u>HAZARDOUS DECOMPOSITION PRODUCTS:</u>	Burning generates carbon monoxide and carbon dioxide.
<u>INCOMPATIBILITY:</u>	Contact with acetyl chloride and a wide range of oxidizing agents.

---

**SECTION XI - TOXICOLOGICAL INFORMATION**

---

N/A

---

**SECTION XII - ECOLOGICAL INFORMATION**

---

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

---

**SECTION XIII - DISPOSAL INFORMATION**

---

All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

---

**SECTION XIV TRANSPORTATION INFORMATION**

---

	<u>DOT</u>	<u>ICAO/IATA/EUROPEAN)</u>
CLASSIFICATION:	Flammable liquid	Flammable Liquid
CLASS:	3	3
PROPER SHIPPING NAME:	Resin Solution	Resin solution
ID NUMBER:	UN 1866	UN 1866
PACKING GROUP:	II	II
FLASH POINT: 55°F		

---

**SECTION XV - REGULATORY INFORMATION:**

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N/A

---

**SECTION XVI - OTHER INFORMATION:**

---

Issued to conform to DSD 67/548/EEC, DPD 88/379/EEC, and DPD 91/155/EEC.

Revision Log:

Date:	Reason:	By whom:
1/29/09	NEW	BZhong
11-6-12	Reviewed	BZhong

---

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Approved by: S. Santos

---

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

VOC Data Sheet:  
Properties of the Coating "As Supplied" by the Manufacturer

Coating manufacturer: MANTROSE-HAEUSER CO. INC.

Coating identification: Sparkle Glow Sunbrite B6

Batch identification: \_\_\_\_\_

Supplied to: Ferrara Pan Candy

Properties of the coating as supplied<sup>1</sup> to the customer:

A. Coating density ( $D_c$ )<sub>s</sub>: 6.9 lb/gal 0.83 kg/L

☒ ASTM D1475 ☐ Other <sup>2</sup>

B. Total volatiles ( $W_v$ )<sub>s</sub>: 81.5 Weight percent

☒ ASTM D2369 ☐ Other <sup>2</sup>

C. Water (and exempt compounds) content:

1. ( $W_w$ )<sub>s</sub>: 2.1 Weight percent

☐ ASTM D3792 ☒ ASTM D4017 ☐ Other <sup>2</sup>

2. ( $V_w$ )<sub>s</sub>: 1.74 Volume percent

☒ Calculated ☐ Other <sup>2</sup>

D. Organic volatiles ( $W_o$ )<sub>s</sub>: 79.4 Weight percent

E. Non-volatiles content ( $V_n$ )<sub>s</sub>: 15.0% Volume percent

F. VOC content ( $VOC$ )<sub>s</sub>: 1. 5.58 lb/gal coating less water and exempt cmpds

or 0.66 kg/L coating less water and exempt cmpds

2. 36.52 lb/gal solids

or 4.35 kg/L solids

Remarks: (use reverse side)

Signed: \_\_\_\_\_ Date: 3/19/09

<sup>1</sup> The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.

<sup>2</sup> Explain the other method used under "Remarks."

NTS / VOC  
5.58 / 0.66  
36.52 / 4.35

**MANTROSE -HAEUSER COMPANY**  
**1175 POST ROAD EAST**  
**WESTPORT, CT 06880**

**MATERIAL SAFETY DATA SHEET**

**SECTION I-IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY UNDERTAKING**

MSDS NO:  
DATE: 11/22/93

EMERGENCY NO: 1-800-255-3924 (CHEMTEL)  
INTERNATIONAL ACCESS CODE +1-813-248-0585

REVISION DATE: 12/18/13  
Supersedes: 6/25/01

GENERAL INFORMATION NO:(203)-454-1800  
MANTROSE-HAEUSER CO.

PRODUCT NAME: 3# REFINED CONFECTIONERS GLAZE IN 35A/190 ALCOHOL

SYNONYMS: Orange , Refined or Regular Confectioners Glaze

CHEMICAL FAMILY: Natural Resin in denatured alcohol solution

PRODUCT CODE: 02545

**SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS**

COMPOSITION	CAS RN	NOMINAL %	PEL/TLV	HAZARD
Ethyl Alcohol	64-17-5	61.31%	1000 ppm	Flammable-Nervous System Depressant
Ethyl Acetate	141-78-6	3.13%	400 ppm	Flammable/Irritant

0.502  
1008  
depressed

**SECTION III - HAZARDS: (IDENTIFY)**

**EFFECTS OF OVEREXPOSURE:** Possible drowsiness above 1000ppm, vomiting, coughing, headache, dizziness, stupor and irritation of eyes and nose.

**PRIMARY ROUTE OF ENTRY:** Inhalation

**HMIS RATING:** 1/3/0

**OTHER:** N/A

**SECTION IV - FIRST AID MEASURES**

**FOR OVEREXPOSURE BY:**

**INGESTION:** Call a physician or poison control center

**CONTACT WITH EYES OR SKIN:** Immediately flush affected area with plenty of cool water. Eyes should be flushed for at least 15 minutes. Remove and wash contaminated clothing before re-use. If irritation exists, *consult a physician.*

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**INHALATION:** Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth. *Get Medical attention immediately.*

---

## **SECTION V - FIRE FIGHTING MEASURES**

---

### **EXTINGUISHING MEDIA:**

Use dry chemical, foam, "alcohol foam", or Carbon Dioxide. Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures.\*

### **UNUSUAL FIRE & EXPLOSION HAZARDS:**

Vapors form from this product and may settle in low places, travel along the ground, or move by air currents to be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignitions sources at locations distant from handling point. Product contains alcohol; therefore flames might be difficult to see because they are virtually colorless.

### **SPECIAL FIREFIGHTING PROCEDURES:**

Use self-contained breathing apparatus in the positive pressure mode. Wear full protective clothing. Use water spray to cool fire-exposed containers and structures.

\* - For pure Ethyl Alcohol

---

## **SECTION VI - ACCIDENTAL RELEASE MEASURES**

---

Wear appropriate respiratory protection and protective clothing as described in Section VIII. Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. *Keep away from ignition sources and provide adequate ventilation..*

---

## **SECTION VII - HANDLING & STORAGE**

---

Protect container against physical damage. Detached or outside storage is preferred. Inside storage should be in NFPA approved flammable liquids storage room or cabinet. All ignition sources should be eliminated. Smoking should be prohibited in storage areas. Electrical installations should be in accordance with Article 501 of the National Electrical Code. The NFPA 30 Flammable and Combustible Liquids Code should be followed for all storage and handling. Frequent careful leakage inspection should be done. Automatic sprinkler system should be provided. Isolate from oxidizers, chemicals capable of spontaneous heating, materials reacting with air or moisture to liberate heat ignition sources and explosives. Consult local fire codes for additional storage information. Keep closure up to prevent leakage and remove closure carefully....internal pressure may be present. Avoid breathing vapor. Use with adequate ventilation.

**OTHER PRECAUTIONS:** Empty containers retain some product residue, follow label warnings even when container is empty.

---

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---

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

---

**Control Measures:** Handle in the presence of adequate ventilation by providing local exhaust..

**Respiratory Protection:** Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminant in air and in accordance with OSHA (29 CFR 1910.134).

**Protective clothing:** Wear gloves and protective clothing which are impervious to this product for the duration of anticipated exposure if there is potential for skin contact.

**Eye Protection:** Use safety glasses if no eye contact is anticipated. If eye contact is *anticipated*, wear chemical splash goggles meeting specs of ANSI Standard Z87.1..

**OTHER SAFETY EQUIPMENT:** Provide eye bath and safety shower.

---

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

---

BOILING RANGE: 55-86°C                      SPECIFIC GRAVITY (H<sub>2</sub>O=1): 0.907 @ 60°F

EVAPORATION RATE:(Ether=1):<1      VAPOR DENSITY (air = 1): >1

FLASH POINT: 54°F\*                      ASTM D-56 Tag closed cup

FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER : 3.3\*                      UPPER: 19\*

PERCENT VOLATILE VOLUME: 78.31%      LBS. PER GALLON: 7.56 LBS.

\* - for Pure Ethyl Alcohol

---

## SECTION X - STABILITY AND REACTIVITY

---

**STABILITY:** Stable                      **HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS/MATERIALS TO AVOID:** Ignition sources, high heat, sparks, open flames.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning may generate carbon monoxide and carbon dioxide.

**INCOMPATIBILITY:** Strong oxidizing agents

---

## SECTION XI - TOXICOLOGICAL INFORMATION

---

TSCA/ All components of this product listed in the TSCA Inventory of Chemical Substances.

---

## SECTION XII - ECOLOGICAL INFORMATION

---

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

---

## SECTION XIII - DISPOSAL INFORMATION

---

All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

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---

**SECTION XIV TRANSPORTATION INFORMATION**

---

D.O.T. and ICAO/IATA/EUROPEAN

(Flash Point 54°F)

CLASSIFICATION: Flammable liquid

CLASS: 3

PROPER SHIPPING NAME: Resin Solution

PACKING GROUP: II

ID NUMBER: UN 1866

---

**SECTION XV - REGULATORY INFORMATION:**

---

**SECTION 313:**

N/A

---

**SECTION XVI - OTHER INFORMATION:**

---

Issued to conform to DSD 67/548/EEC , DPD 88/379/EEC and DPD 91/155/EEC.

**REVISION LOG:**

DATE:	REASON:	BY WHOM:
9/20/99	Format change (from Bradshaw)	SAS
6/25/01	Change international access phone number	DLY
12/18/13	Reviewed for Accuracy	SAS

**APPROVED BY: STEVE SANTOS**

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**Mantrose • Bradshaw • Zinsser Group**

Mantrose-Haeuser Co., Inc. 113 Olive Street • Attleboro, MA 02703 • 508-222-3710 • Fax 508-226-5802

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY****VOC DATA SHEET****Properties of the Coating "as Supplied" by the Manufacturer**

Coating Manufacturer: Mantrose-Haeuser Co., Inc.  
 Coating Identification: 3.0# Refined Confectioner's Glaze (SD35A/190)  
 Batch Identification: N/A; Theoretical  
 Supplied To: Ferrara Pan Candy Co.

Properties of the coating as supplied<sup>1</sup> to the customer:

- A. Coating Density ( $D_c$ )<sub>s</sub>: 7.525 Lbs. / gal.  
 ASTM D1475 XX Other<sup>2</sup>
- B. Total Volatiles ( $W_v$ )<sub>s</sub>: 69.78 % Weight Percent  
 ASTM D2369 XX Other<sup>2</sup>
- C. Water Content: 1. ( $W_w$ )<sub>s</sub>: 7.38 % Weight Percent  
 ASTM 3792 ASTM D4017 XX Other<sup>2</sup>  
 2. ( $V_w$ )<sub>s</sub>: 6.67 % Volume Percent  
XX Calculated Other<sup>2</sup>
- D. Organic Volatiles ( $W_o$ )<sub>s</sub>: 62.39 % Weight Percent
- E. Nonvolatiles Content ( $V_n$ )<sub>s</sub>: 22.45 % Volume Percent
- F. VOC Content (VOC)<sub>s</sub>: 5.03 Lbs. / gal. coating less water ✓

**Remarks:**<sup>2</sup>theoretical, calculated as per formulation<sup>1</sup>The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.Signed 

Date 7 June, '99

03/18/98 14:19

WM. ZINSSER CO. CHICAGO DIVISION

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MANTROSE LAB

PAGE 01

MANTROSE-HAEUSER COMPANY  
1175 POST ROAD EAST  
WESTPORT, CT. 06880

MATERIAL SAFETY DATA SHEETSECTION I - IDENTIFICATION OF SUBSTANCE/ PREPARATION & COMPANY UNDERTAKING

DATE: 3/16/98

EMERGENCY: 1-800-255-3924 (CHEMTAL)

OUTSIDE U.S.A. CALL COLLECT 0-815-979-0826

REVISION DATE: N/A

GENERAL INFORMATION NO.: (203)-454-1800

(MANTROSE-HAEUSER CO. AND

MANTROSE, BRADSHAW, ZINSSER GROUP)

PREPARED BY: ELAINE ALTONIAN

PRODUCT NAME: FPC SUNBRITE - B

SYNONYMS:

CHEMICAL FAMILY: Natural Resin in Denatured Ethyl Alcohol Solution

HMIS RATING: Health (1) FLAMMABILITY (3) REACTIVITY (0)

SECTION II - COMPOSITION/ INFORMATION ON INGREDIENTS

COMPOSITION	CAS RN	NOMINAL %	REL. TLV	HAZARD	VAPOR PRESSURE
Ethyl Alcohol	64-17-5	51.50%	1000ppm	Flammable/Nervous System Depressant	40mmHg @ 19C
Ethyl Acetate	141-78-6	30.18%	400ppm	Flammable/Irritant	100mm @ 27C
** Acetone	67-64-1	9.08%	1000 ppm	Flammable	400mm @ 39.5C

5.856 lbs vol 1/10/1

SECTION III - HAZARDS: (IDENTIFY)

EFFECTS OF OVEREXPOSURE: Possible drowsiness above 1000ppm, vomiting, coughing, headache, dizziness, stupor, irritation of eyes and nose.

PRIMARY ROUTES OF ENTRY: DERMAL X INHALATION INGESTION

Post-It® Fax Note	7671	Date	3/18/98	Page	4
To	PENT.	From	ELAINE		
Co./Dept.		C1			
Phone #		Phone #			
Fax #		Fax #			

\*\* Indicates chemicals subject to reporting requirements of SARA 313 and 40 CFR.

SECTION IV - FIRST AID MEASURES

FPC SUNBRITE-B

Page #1

Date Printed: 3/17/98

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14:19

WM. ZINSSER CO. CHICAGO DIVISION

006

03/18/1998 12:51 1502223848

MANITROSE LAB

PAGE 02

EMERGENCY FIRST AID PROCEDURES: Remove to fresh air, notify a physician

#### SECTION V - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO<sub>2</sub> and Dry Chemical.  
FLAMMABLE LIMITS: LEL 3.3% UEL 19.0%

SPECIAL FIRE FIGHTING PROCEDURES: (Note - individuals should perform only those fire-fighting procedures for which they have been trained.) Use self-contained breathing apparatus in the positive pressure mode. Wear full protective clothing. Use water spray to cool fire-exposed containers and structures.

#### UNUSUAL FIRE & EXPLOSION HAZARDS:

Vapors form from this product and may settle in low places, travel along the ground or move by air currents to be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from handling point. Product contains alcohol, therefore, flames might be difficult to see because they are virtually colorless.

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Provide adequate ventilation. Clean area with absorbent materials, sand or rags.

#### SECTION VII - HANDLING & STORAGE

Protect container against physical damage. Detached or outside storage is preferred. Inside storage should be in NFPA approved flammable liquids storage room or cabinet. All ignition sources should be eliminated. Smoking should be prohibited in storage areas. Electrical installations should be in accordance with Article 501 of the National Electrical Code. The NFPA 30 Flammable and Combustible Liquids Code should be followed for all storage and handling. Frequent careful leakage inspection should be done. Automatic sprinkler system should be provided. Isolate from oxidizers, chemicals capable of spontaneous heating, materials reacting with air or moisture to liberate heat ignition sources and explosives. Consult local fire codes for additional storage information.

Keep closure up to prevent leakage and remove closure carefully....internal pressure may be present. Avoid breathing vapor. Use with adequate ventilation.

#### SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY: Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirator should be selected based on the form and concentration of solvent in air and in accordance with OSHA (29 CFR 1910.134).

VENTILATION: Provide local exhaust to keep concentrations below TLV/PEL.

PROTECTIVE CLOTHING: Wear gloves and protective clothing which are impervious to this product for the duration of anticipated exposure if there is a potential for skin contact.

EYE PROTECTION: Wear safety glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the spec of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

OTHER SAFETY EQUIPMENT: Eye bath and Safety shower.

OTHER PRECAUTIONS: Empty containers retain product residue, follow label warnings even when container is empty.

03/18/98

14:28

WM. ZINSSER CO. CHICAGO DIVISION

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03/18/1998 12:51

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MANTROSE LAB

PAGE 03

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**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:**

---

BOILING POINT: 55.86°C\* AUTO-IGNITION TEMPERATURE: &gt;685°F

EVAPORATION RATE: Slower than Ether.

VAPOR DENSITY: Heavier than Air.

FLASH POINT: 54°F\* ASTM Tag closed cup ODOR: Acetone odor

% VOLATILE VOLUME: 93.30% WEIGHT PER GALLON: 7.17 LBS

\* - for Pure Acetone

5.856 lbs/gal

---

**SECTION X - STABILITY AND REACTIVITY**

---

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS/MATERIALS TO AVOID: Ignition sources, high heat, sparks, open flames

HAZARDOUS DECOMPOSITION PRODUCTS: Burning generates carbon monoxide and carbon dioxide.

INCOMPATIBILITY: Strong oxidizing agents

---

**SECTION XI - TOXICOLOGICAL INFORMATION**

---

All components of this product listed in the TSCA Inventory of Chemical Substances.

This product contains the following toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR Part 372).

CAS # 67-64-1 Chemical Name: CP Acetone Percent by Weight: 9.05%

This information should be included in all MSDS's that are copied and distributed for this material.

---

**SECTION XII - ECOLOGICAL INFORMATION**

---

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

---

**SECTION XIII - DISPOSAL INFORMATION**

---

All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

03/18/98 14:20

WM. ZINSSER CO. CHICAGO DIVISION

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03/18/1998 12:51 15882223849

MANTROSE LAB

PAGE 04

**SECTION XIV TRANSPORTATION INFORMATION**

DEPARTMENT OF TRANSPORTATION: DOMESTIC

EUROPEAN

DOT AND IATA:

DOT CLASSIFICATION:

Flammable liquid

Flammable liquid

CLASS:

3

3

DOT PROPER SHIPPING NAME:

Resin Solution

Resin Solution

OTHER DOT INFORMATION:

UN 1866

UN 1866

PACKING GROUP:

II

II

**SECTION XV - REGULATORY INFORMATION:**

SARA 313: This product is subject to reporting requirements of SARA 313 (contains Acetone).

OSHA: Flammable liquid-Class IB TSCA: All components listed in TSCA Inventory of Chemical Substances.

NOTE: For Industrial Use Only!

**SECTION XVI - OTHER INFORMATION:**

Issued to conform to DSD 67/548/EEC, DPD 88/379/EEC and DPD 91/155/EEC.

APPROVED BY: Steve Santos

*Steve Santos* 2/17/98

FPC/SUNBT/C

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Mantrose-Haeuser Co., Inc. 113 Olive Street • Attleboro, MA 02703 • 508-222-3710 • Fax 508-226-5802

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY****VOC DATA SHEET****Properties of the Coating "as Supplied" by the Manufacturer**

Coating Manufacturer:	Mantrose-Haeuser Co., Inc.
Coating Identification:	Sparkle Glow FPC <u>SunBrite B</u> Confectioner's Glaze
Batch Identification:	N/A; Theoretical
Supplied To:	Ferrara Pan Candy Co.

Properties of the coating as supplied<sup>1</sup> to the customer:

- |    |   |   |
|----|---|---|
| A. | Coating Density ( $D_c$ ) <sub>s</sub> :      | 7.154 Lbs. / gal.                       |
|    | ASTM D1475                                    | <u>XX</u> Other <sup>2</sup>            |
| B. | Total Volatiles ( $W_v$ ) <sub>s</sub> :      | 90.65 % Weight Percent                  |
|    | ASTM D2369                                    | <u>XX</u> Other <sup>2</sup>            |
| C. | Water Content: 1. ( $W_w$ ) <sub>s</sub> :    | 0.11 % Weight Percent                   |
|    | ASTM 3792                                     | ASTM D4017 <u>XX</u> Other <sup>2</sup> |
|    | 2. ( $V_w$ ) <sub>s</sub> :                   | 0.09 % Volume Percent                   |
|    | <u>XX</u> Calculated                          | Other <sup>2</sup>                      |
| D. | Organic Volatiles ( $W_o$ ) <sub>s</sub> :    | 83.52 % Weight Percent                  |
| E. | Nonvolatiles Content ( $V_n$ ) <sub>s</sub> : | 7.69 % Volume Percent                   |
| F. | VOC Content (VOC) <sub>s</sub> :              | 6.47 Lbs. / gal. coating less water     |

**Remarks:**<sup>2</sup>theoretical, calculated as per formulation<sup>1</sup>The subscript "s" denotes each value is for the coating "as supplied" by the manufacturer.

Signed

Date 8 June, '99